(No Model.)

3 Sheets—Sheet 1.

R. DRURY.

BATH.

No. 543,469. Patented July 30, 1895.

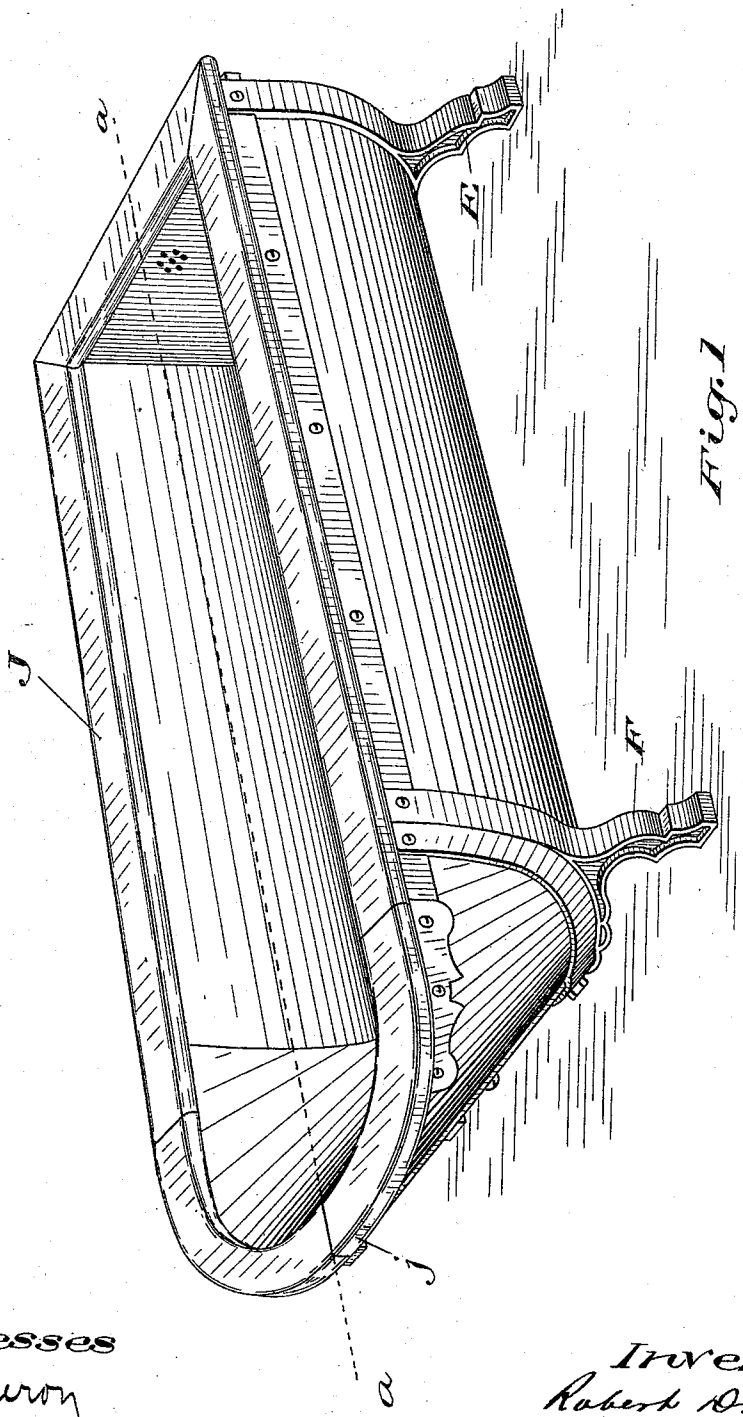

Fig. 1.

Witnesses
J. L. Cameron
L. Foulds

Inventor
Robert Drury
by C. H. Riches
his Attorney

(No Model.)

3 Sheets—Sheet 2.

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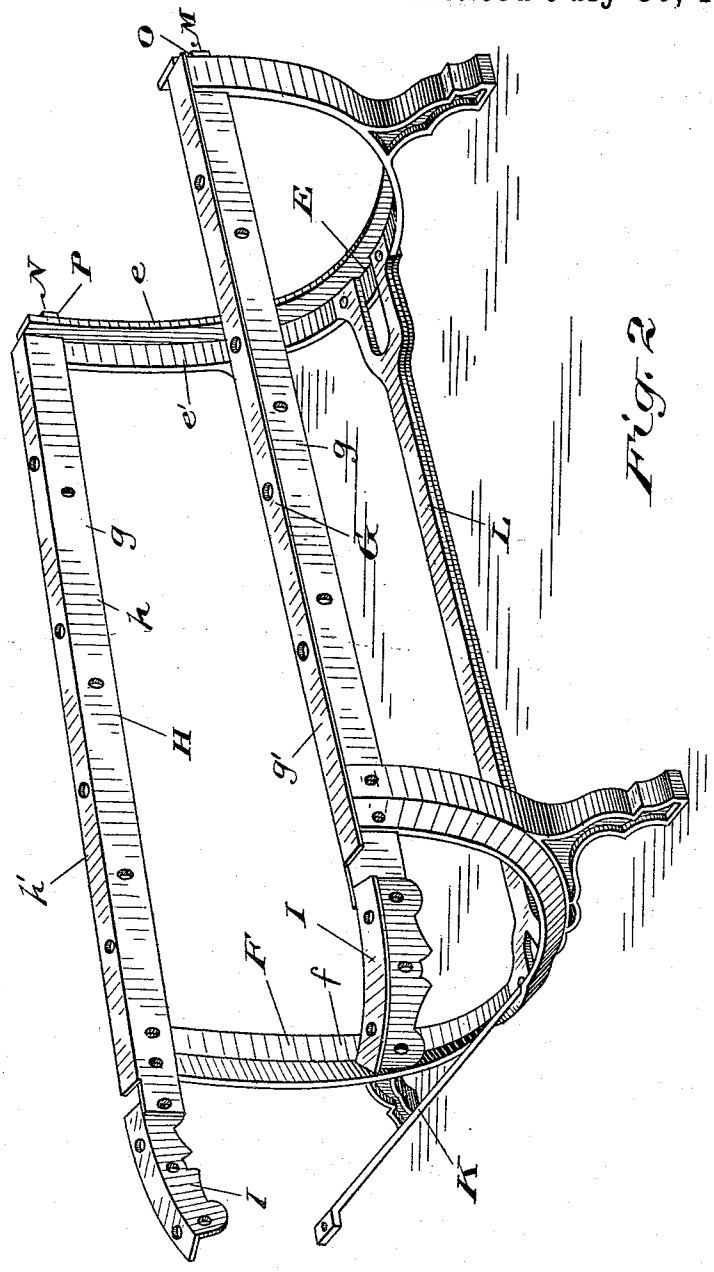

Fig. 2

Witnesses
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(No Model.) 3 Sheets—Sheet 3.

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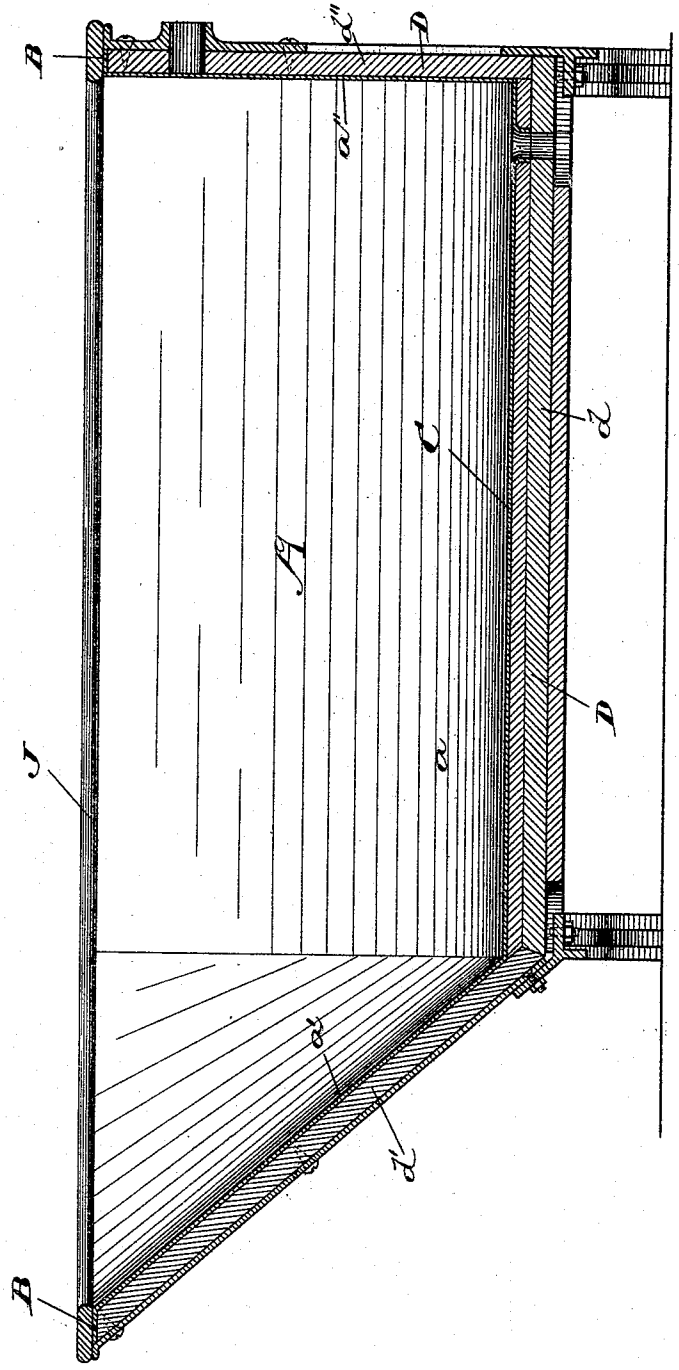

Fig. 3

Witnesses
J. P. Cameron
L. Foulds

Inventor
Robert Drury
by C. H. Riches
his attorney.

UNITED STATES PATENT OFFICE.

ROBERT DRURY, OF TORONTO, CANADA, ASSIGNOR OF ONE-HALF TO JOHN O. THORN, OF SAME PLACE.

BATH.

SPECIFICATION forming part of Letters Patent No. 543,469, dated July 30, 1895.

Application filed November 6, 1894. Serial No. 528,096. (No model.)

To all whom it may concern:

Be it known that I, ROBERT DRURY, of the city of Toronto, in the county of York and Province of Ontario, Canada, have invented certain new and useful Improvements in Baths; and I hereby declare that the following is a full, clear, and exact description of the same.

This invention relates to certain new and useful improvements in baths; and the object of the invention is to provide the inner copper shell with an outer covering of wood in close contact with the copper shell, and to so bend the wood that it will adapt itself to the form or shape of the inner copper shell, and to provide the bath with a metallic frame which will securely hold together the several parts and permit of any one part or the whole of the parts being removed for repair or alteration purposes; and the invention consists essentially of forming an inner copper shell of the required size and shape having its bottom slightly flattened at the middle and curved to meet the opposite sides, and providing the inner copper shell with a covering of wood, the body of which is either bent to the same shape as the body of the inner copper shell or is built up of a series of sections which will adapt themselves to the shape of the body of the inner copper shell; providing the head of the bath with an outer covering of wood either bent to fit the head of the inner copper shell or built up of a series of sections arranged to adapt themselves to the shape of the head; providing the foot of the bath with a similar covering and supporting and binding together the several parts of the bath by means of a frame which consists of two U-shaped brackets, one located at the foot of the body of the bath and the other located at the head of the body of the bath, each provided with legs to hold the bath above the level of the floor, and connecting these U-shaped brackets together at the bottom by means of a brace bolted at each end to one of the U-shaped brackets, and connecting together the top of the U-shaped brackets with tie-rods of angle-iron, which are intended to be bolted or fastened to the outer covering of wood and draw together the several parts; providing the bath with a top frame, which is intended to be fastened to the tie-rods and to the two brackets extending around the head of the bath beyond the adjacent U-shaped bracket to hold the inner copper shell in position, and in providing a brace adapted to be screwed to the top frame at the head of the bath and to the adjacent U-shaped bracket, the whole device being hereinafter more fully set forth, and more particularly pointed out in the claims.

In the drawings, Figure 1 is a perspective view of the complete bath. Fig. 2 is a perspective view of the metallic frame. Fig. 3 is a transverse sectional view on the lines *a a*, Fig. 1.

Like letters of reference refer to like parts throughout the specification and drawings.

The inner shell A is made of tinned copper or other suitable metal, and consists of a body *a*, a head *a'*, and a foot *a''*. The head *a'* and foot *a''* may be of any desired shape, in order that the bath may be of any desired style.

The top of the inner shell A is provided with a flange B, which extends along both sides and around the head and the foot. The bottom C of the shell A is flattened, in order that a flattened surface may be provided for the occupant of the bath to stand on while using it, and thus avoid the inconvenience experienced in standing on a rounded or sharply-sloping bottom.

The entire shell A is protected by an outer covering D of wood or papier-maché. The body *d* of the outer covering D is preferably bent to conform to the shape of the body *a* of the inner shell A, which it snugly fits, while the head *d'* is bent to conform to the head *a'* of the inner shell A, and the foot *d''* is bent to conform to the foot *a''* of the inner shell A.

In the case of the employment of wood it is scarcely possible to construct the body, the head, and the foot of the outer covering of one continuous piece of bended wood, and I find it advisable to construct the outer covering of three individual pieces—namely, the body, the head, and the foot—which are capable of being completely separated from each other except when held together by the metallic frame.

Supporting the foot of the body of the bath is a U-shaped bracket E, of angle-iron, one flange *e* of which bears against the end or

foot d'' of the bath, while the other flange e' of the bracket E bears against the foot end of the body D.

Supporting the bath at the head of the body is a U-shaped bracket F, provided on its inner side with a rib f, against one side of which rests the head end of the body d, and against the other side of which rests the lower edge of the head d'.

Located along each side of the top of the body d is a tie-rod G, of angle-iron, to one flange g of which at each end is bolted to the top of the U-shaped brackets E F, and extending along the top of the opposite side of the body d is a similar tie-rod H, of angle-iron, to the flange h of which at each end is bolted the opposite ends of the U-shaped brackets. The other flanges g' h' of the tie-rods G H, respectively, are flush with the top of the body d and extend outwardly from the same.

Resting on the top of the outer covering D is the flange B of the inner shell A, which barely extends to the edge of the outer covering. The inner shell A, when the top frame is removed, can be lifted out of or placed in the outer covering D without interfering with or moving any of the parts other than the top frame.

Bolted to the tie-rods G H, at the head of the body d, are two brackets I, of angle-iron, similar in shape to the tie-rods G H, respectively. The brackets I extend partially around the head d' of the covering D. The top frame J is bolted, screwed, or otherwise fastened to the flanges g' h' of the tie-rods G H and to the top flanges of the brackets I.

Screwed, bolted, or otherwise fastened to the head j of the frame J is the top of a brace or stay K, while the lower end of the brace or stay K is bolted to the U-shaped bracket F at or near the middle thereof. Rigidly connecting together the brackets E F is a brace L, which is bolted at its respective end to the brackets E F. Connected to the foot end of each of the tie-rods G H is a bolt M N respectively fitted with nuts O P. The bolts M N pass through the respective ends of the flange e of the bracket E, and by tightening the nuts O P it is possible to draw tightly together the several parts of the outer covering.

Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. In a bath the combination of the inner shell composed of a body portion and head and foot portions, the outer covering composed of a body portion and head and foot portions arranged to conform respectively to the shape of the body portion and head and foot portions of the inner shell, a metallic frame comprised of two U-shaped brackets arranged one at the foot of the body portion and the other at the head of the body portion, tie-rods connected to the top of the U-shaped brackets arranged to bind them together, and arms connected to the tie-rods extending around the head of the bath, substantially as specified.

2. In a bath the combination of the inner shell composed of a body portion and head and foot portions, the outer covering composed of a body portion and head and foot portions arranged to conform respectively to the shape of the body portion and head and foot portions of the inner shell, a metallic frame comprised of two U-shaped brackets arranged one at the foot of the body portion and the other at the head of the body portion, tie-rods connected to the top of the U-shaped brackets arranged to bind them together, arms connected to the tie-rods extending around the head of the bath, and a brace connecting together the U-shaped brackets beneath the bath, substantially as specified.

3. In a bath the combination of the inner shell composed of a body portion and head and foot portions, the outer covering composed of a body portion and head and foot portions arranged to conform respectively to the shape of the body portion and head and foot portions of the inner shell, a metallic frame comprised of two U-shaped brackets arranged one at the foot of the body portion and the other at the head of the body portion, tie-rods connected to the top of the U-shaped brackets arranged to bind them together, arms connected to the tie-rods extending around the head of the bath, a brace connecting together the U-shaped brackets beneath the bath, and a top frame connected to the tie-rods and arms, substantially as specified.

4. In a bath the combination of the inner shell composed of a body portion and head and foot portions, the outer covering composed of a body portion and head and foot portions arranged to conform respectively to the shape of the body portion and head and foot portions of the inner shell, a metallic frame comprised of two U-shaped brackets arranged one at the foot of the body portion and the other at the head of the body portion, tie-rods connected to the top of the U-shaped brackets arranged to bind them together, arms connected to the tie-rods extending around the head of the bath, a brace connecting together the U-shaped brackets beneath the bath, a top frame connected to the tie-rods and arms, and a brace connected to the head of the frame and to the U-shaped bracket at the head of the bath and beneath the same, substantially as specified.

Toronto, October 13, 1894.

ROBERT DRURY.

In presence of—
C. H. RICKER,
M. A. WESTWOOD.